

1/41

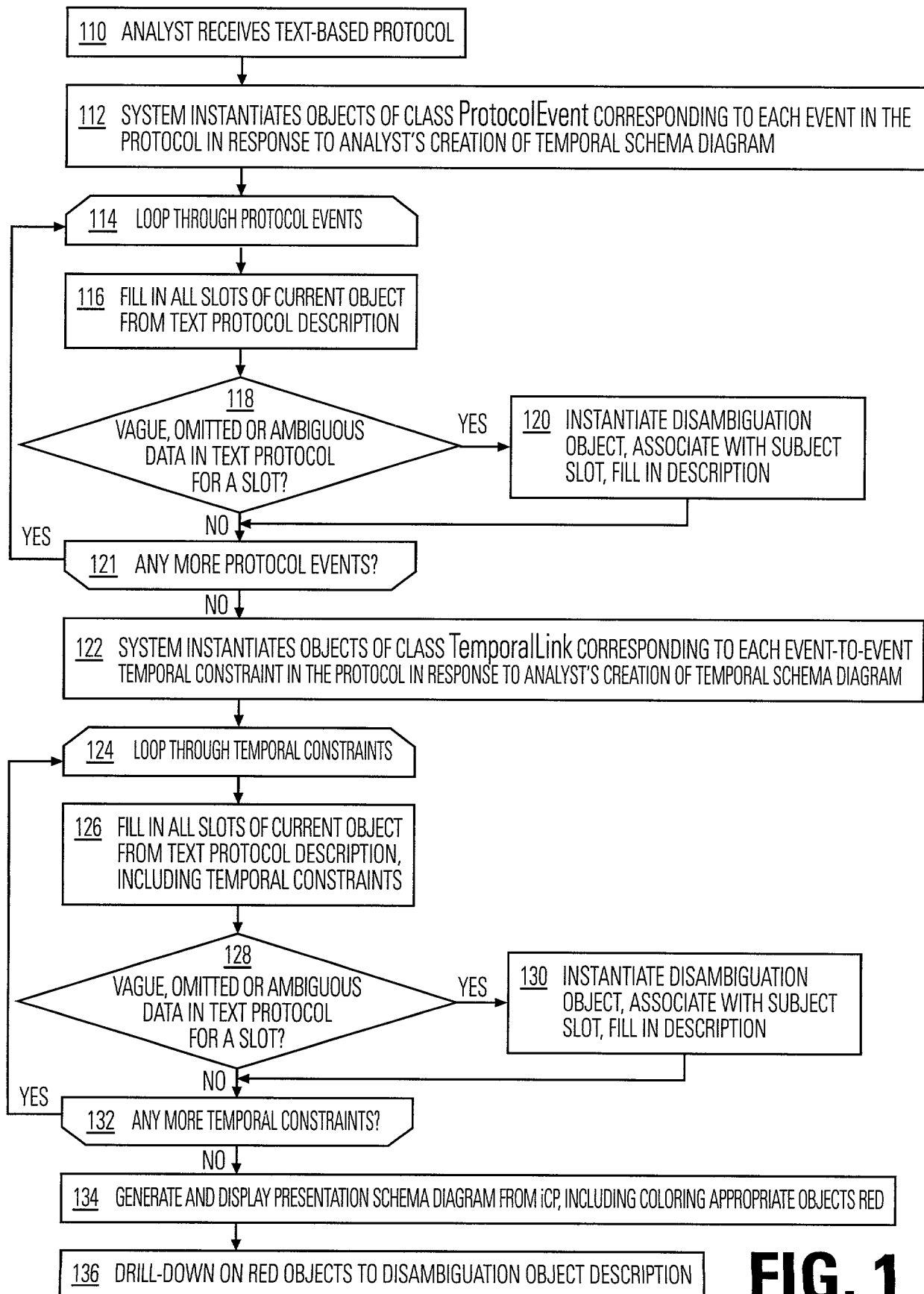


FIG. 1

210

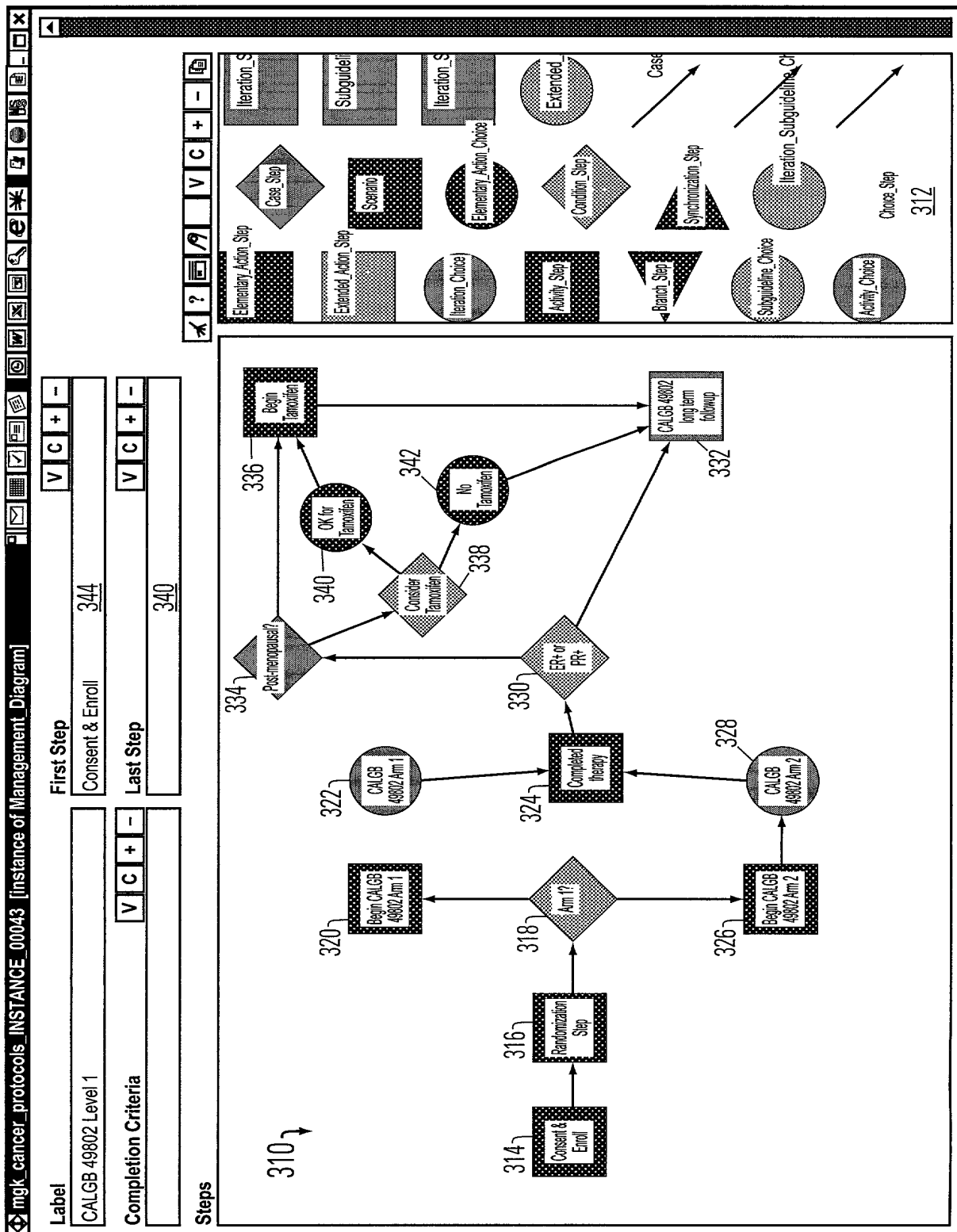


FIG. 3

4/41

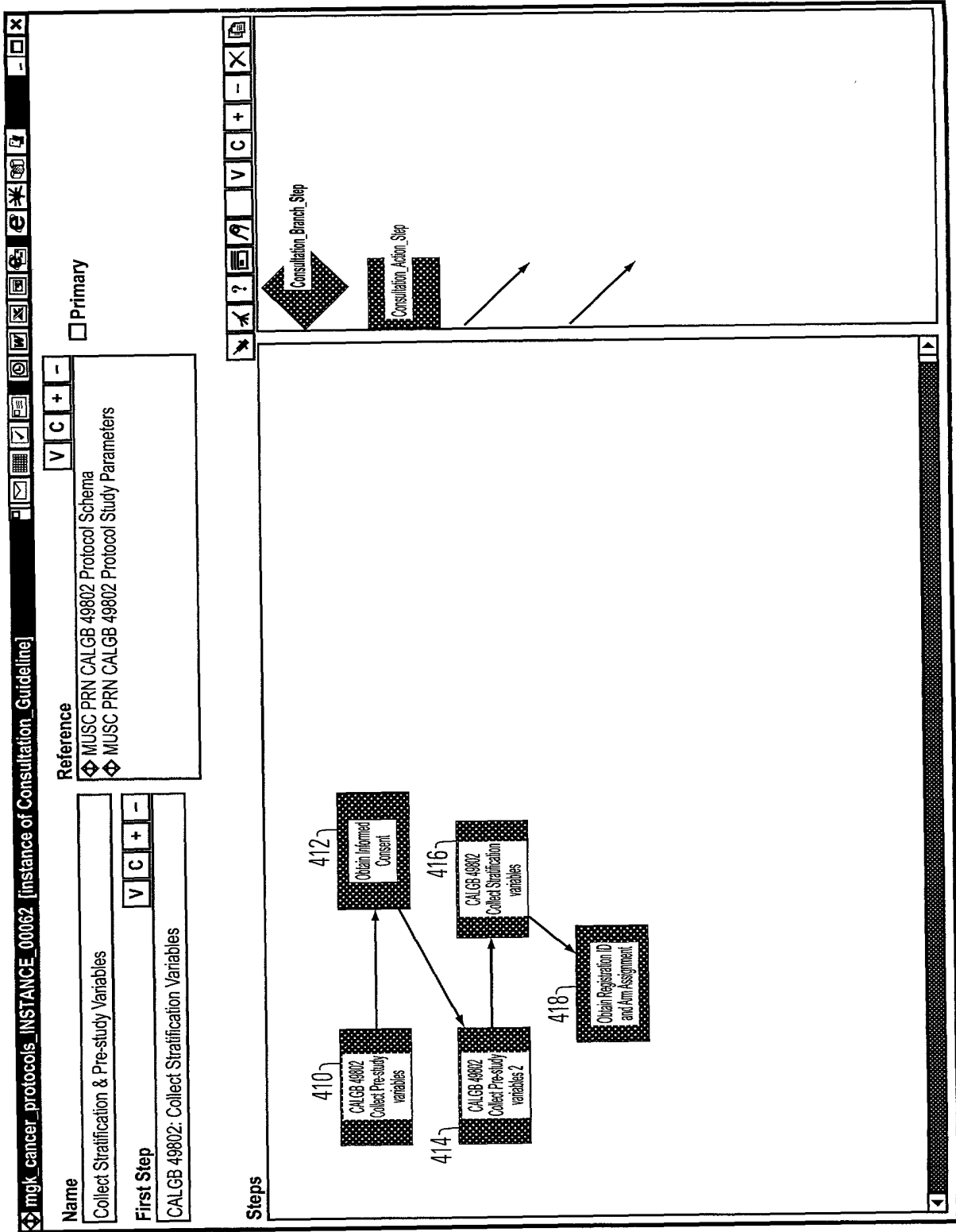


FIG. 4

mgk_cancer_protocols_INSTANCE_00063 [instance of Consultation_Act...]	
Label	mgk_cancer_protocols_INSTANCE_00063 [instance of Consultation_Act...]
CALGB 49802: Collect Stratification Variables	<ul style="list-style-type: none"> <li>Evaluate lymph node status</li> <li>Evaluate menopausal status</li> <li>Evaluate estrogen receptor status</li> <li>Evaluate progesterone receptor status</li> </ul>
Followed By	
Rule In	
Rule Out	
References	



6/41

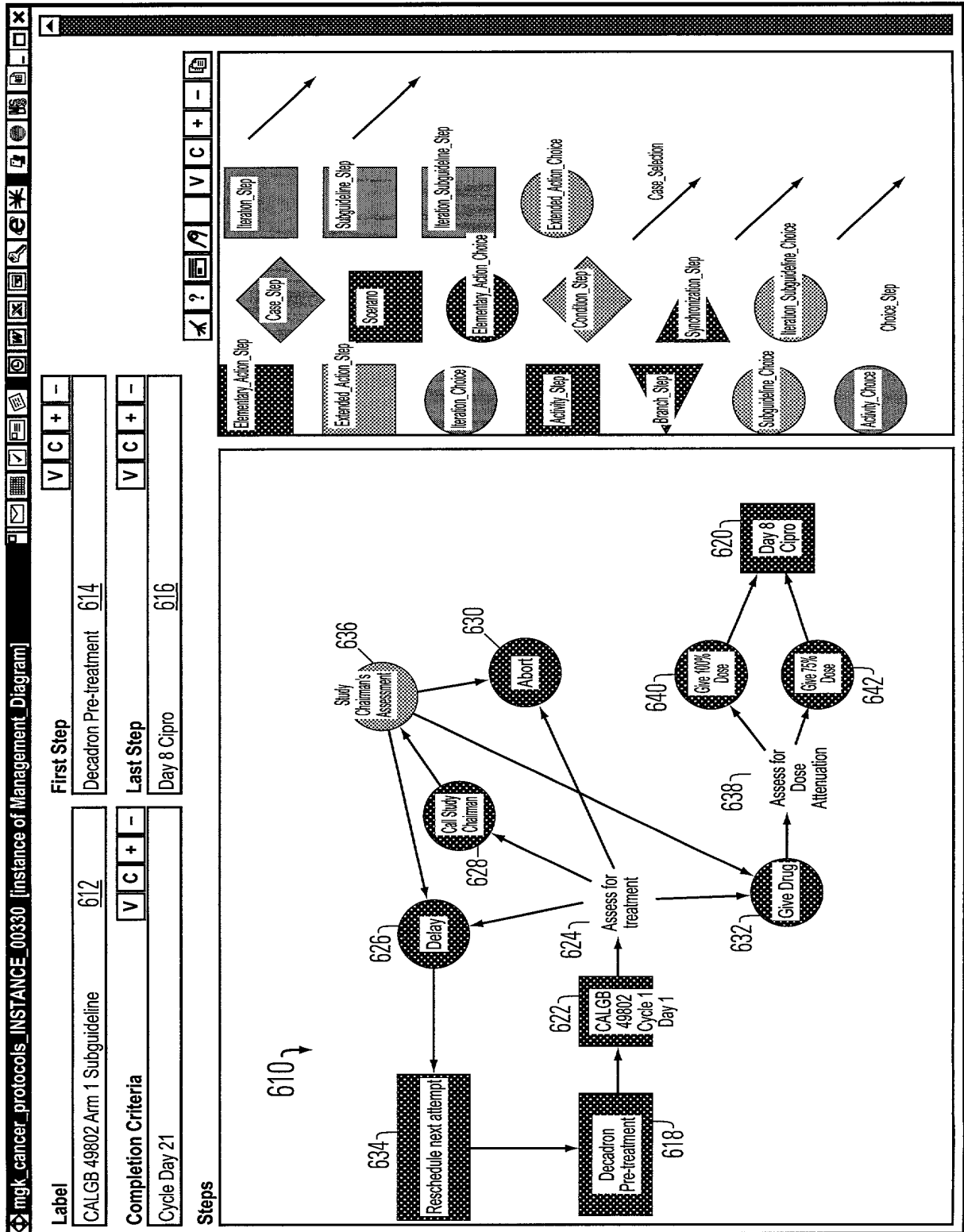


FIG. 6

7/41

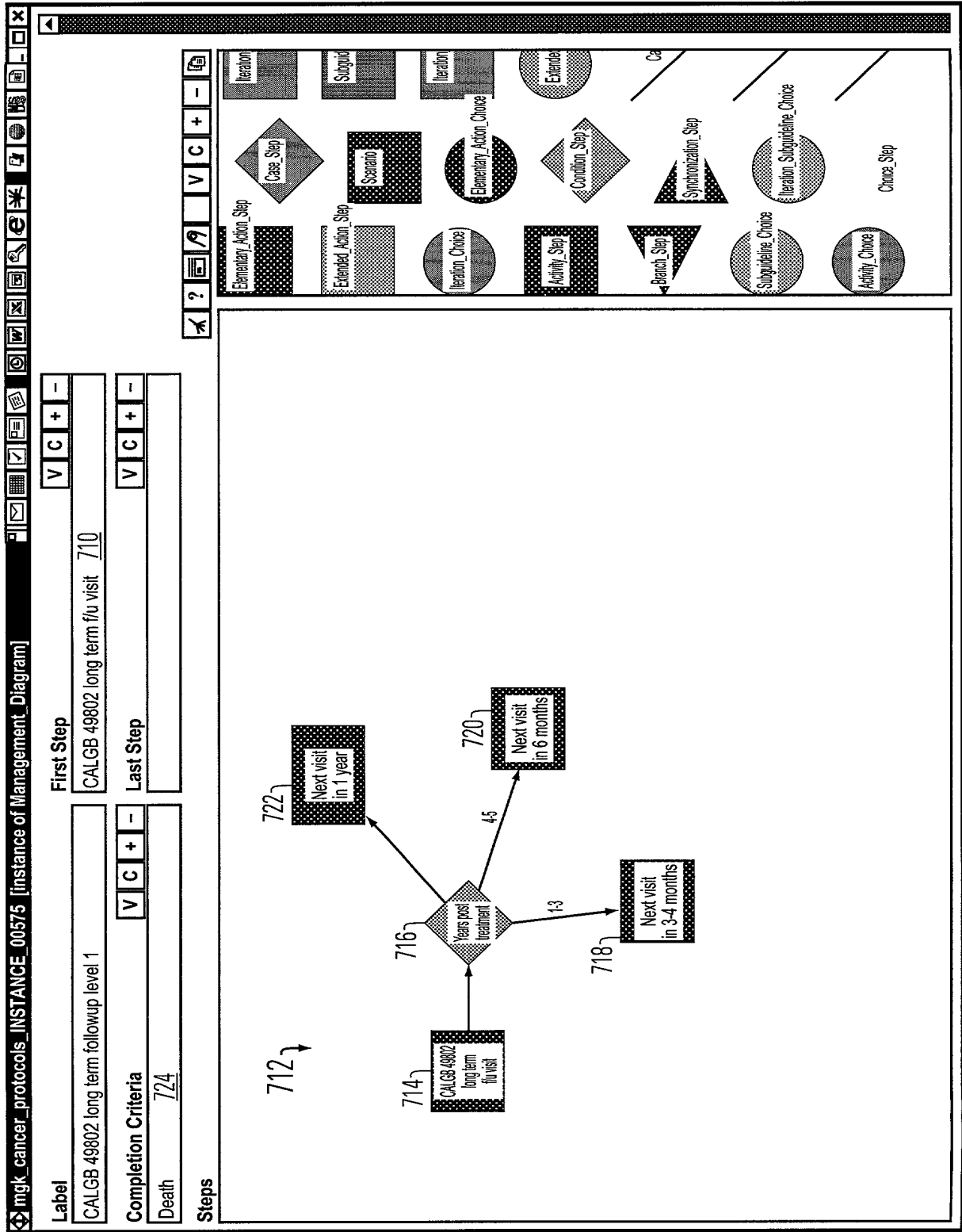


FIG. 7

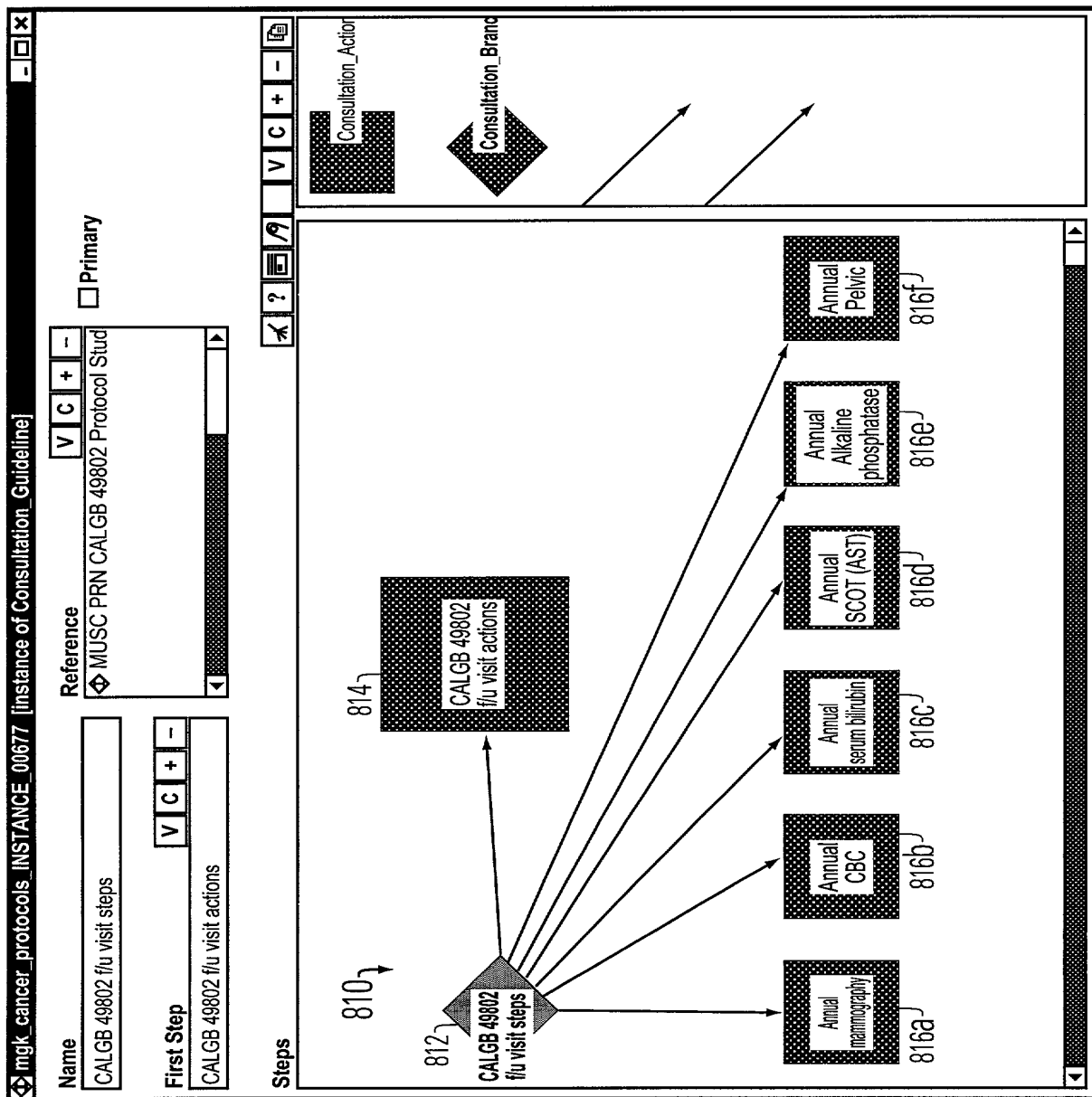


FIG. 8



9/41

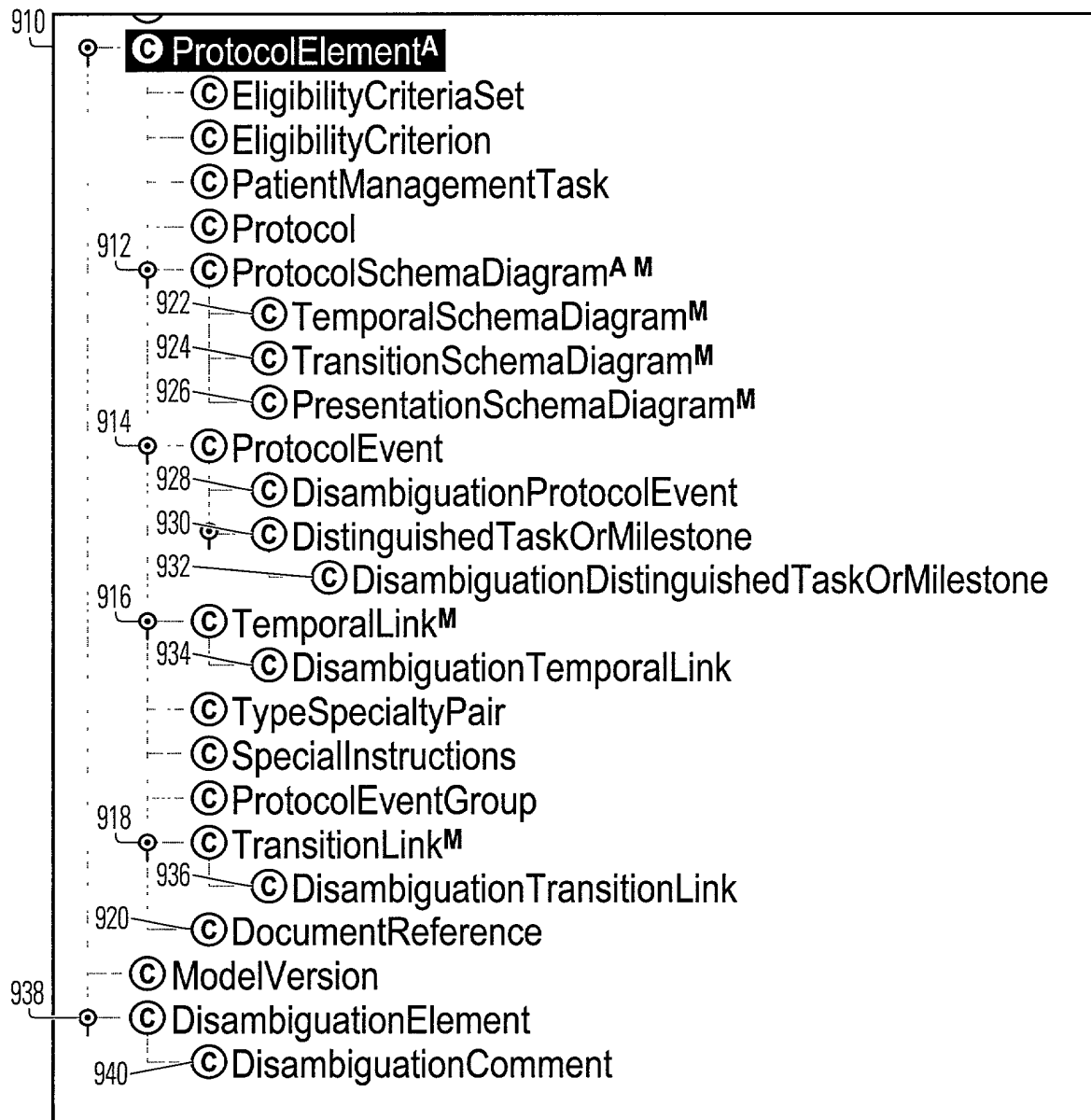


FIG. 9

910

© ProtocolElement

<b>Name</b>	<b>Documentation</b>	<b>Constraints</b>
ProtocolElement	The superclass for all objects in the FastTrack protocol model.	
<b>Role</b>		
Abstract <sup>A</sup>		

**Template Slots**

Name	Type	Cardinality	Other Facets
1010 [S] disambiguationComments	Instance	multiple	classes={DisambiguationComment}
[S] drillDown	Boolean	single	default={false}
1012 [S] encodingComments	String	single	
1014 [S] longDescription	String	single	
[S] shortDescription	String	required single	

FIG. 10

FastTrack Protocol Protégé-2000 [C:\My Documents\Latest FastTrack RDF + CALGB 9840\FastTrack Protocol.pprj]

Project Edit Window Help

Classes Forms Instances

Relationship: Subclass V C X

ThingA

SYSTEM-CLASSA

Diagram\_Entity

Date

ProtocolElementA-1112

EligibilityCriteriaSet-1124

EligibilityCriterion

PatientManagementTask-1130

Protocol-1116

ProtocolSchemaDiagramM-1132

Visit-1128

VisitToVisitTransitionM

DiseaseArea

Arm-1150

WeightedPath-1152

ApplicationArea

VisitCycle-1154

DiseaseA

DiseaseQualifiersA

ModelVersion

Protocol (Instance of rdfs:Class)

Name

Protocol

Constraints

V C +

Role

Concrete

Documentation

The document that describes the objective(s), design, methodology, statistical considerations, and organization of a trial. The protocol also usually gives the background and

Template Slots

Name	Type	Cardinality	Default	Other Facets
protocolSchemaDiagram-1134	Instance	Single		classes={Protocol(SchemaDiagram)}
protocolTitle	String	Single		
quickScreenCriterion-1120	Symbol	Single		values={Prostate Cancer, Colorectal Cancer, Breast Canc
rdfs:isDefinedBy	Instance	Single		classes={URI, rdfs:Resource}
rdfs:seeAlso	Instance	Single		classes={URI}
resource uri	Instance	Single		
shortDescription	String	Single		
siteAccrualTarget	String	Single		
siteLongDescription	String	Single		
siteShortDescription	String	Single		
sponsor	String	Single		
sponsorAccrualTarget	String	Single		
studyChair	String	Single		
trialPhase	String	Single		
trialStatus	Symbol	Single		values={Phase II, Phase IV, Phase, PhaseIII}

Rdfs:isDefinedBy

V C +

Rdfs:seeAlso

V C +

Resource Uri

66 V +

Superclasses

ProtocolElementA

FIG. 11

12/41

FastTrack Protocol\_INSTANCE\_00212 [instance of Protocol]

<b>ProtocolTitle</b>	<b>Version</b>
A Phase III Study of Paclitaxel via Weekly 1-Hour Infusion v	Update #1
<b>ProtocolIdentifier</b>	<b>VersionDate</b>
CALGB 9840	December 15, 1998
<b>OfficialSourceDocument</b>	<b>EligibilityCriteriaSet</b>
<a href="http://prn.musc.edu/research/protocol/deptmed/divhonc/b">http://prn.musc.edu/research/protocol/deptmed/divhonc/b</a>	<input type="button" value="V"/> <input type="button" value="C"/> <input type="button" value="+"/> <input type="button" value="-"/>
<b>ShortDescription</b>	<input checked="" type="checkbox"/> CALGB 9840 Eligibility Criteria 1212
<b>StudyChair</b>	
Andrew D. Seidman, M.D.	
<b>Sponsor</b>	<b>LongDescription</b>
CALGB	
<b>QuickScreenCriterion</b>	
Breast Cancer	
<b>Sponsor</b>	
To compare "standard" (S) paclitaxel at 175 mg/m2 via 3-hour infusion every 3 weeks to "dose-dense" (DD) paclitaxel at 80 mg/m2 via 1-hour infusion every week	
<b>TrialStatus</b>	<b>AccrualStatus</b>
Active	Open for accrual
<b>TrialPhase</b>	<b>TrialType</b>
Phase III	Cooperative group
	<b>FirstVisit</b>
	<input type="button" value="V"/> <input type="button" value="C"/> <input type="button" value="+"/> <input type="button" value="-"/>
	Screening Visit
	<b>ProtocolSchemaDiagram</b>
	<input type="button" value="V"/> <input type="button" value="C"/> <input type="button" value="+"/> <input type="button" value="-"/>
	CALGB 9840 Schema 1214

FIG. 12

914

**ProtocolEvent**

**Name**  
ProtocolEvent

**Role**  
Concrete

**Documentation**  
This class is used to represent a single patient visit during the course of a clinical protocol.

**Constraints**

**Template Slots**

Name	Type	Cardinality	Other Facets
1010 [S] disambiguationComments	Instance	multiple	classes={DisambiguationComment}
[S] drillDown	Boolean	single	default={false}
[S] encodingComments	String	single	
1312 [S] eventType	Symbol	single	allowed-values={Screening,Treatme...}
[S] incomingLinks	Instance	multiple	classes={TemporalLink}
1012 [S] isMilestone	Boolean	single	default={false}
1310 [S] longDescription	String	single	
[S] managementTasks	Instance	multiple	classes={PatientManagementTask}
1314 [S] outgoingLinks	Instance	multiple	classes={TemporalLink}
1014 [S] shortDescription	String	required single	

FIG. 13

14/41

The screenshot shows a software window titled "2 day f/u for Visit 1 (DisambiguationProtocolEvent)". The interface is divided into several sections:

- ShortDescription:** A text box containing "2 day f/u for Visit 1".
- EventType:** A dropdown menu currently showing "Treatment".
- LongDescription:** A text box containing "These labs must be obtained in the morning.".
- Management Tasks:** A list of tasks with checkboxes: Phone F/U, Creatinine, Ionized Ca, Mg, PO4, and CBC with Diff and plt.
- Incoming Links:** A section with a "V C + -" control bar and a list containing "Visit 1 to Visit 1 f/u".
- OutgoingLinks:** A section with a "V C + -" control bar and an empty list box.
- EncodingComments:** An empty text box.
- DisambiguationComments:** A section with a "V C + -" control bar and a list containing "Inconsistent tasks in tx plan and assessment". A page number "1410" is visible in the bottom right corner of this section.

Navigation arrows are present at the bottom of the window.

FIG. 14

916

© TemporalLink (Connector\_Metaclass)

Name

TemporalLink

Constraints

Documentation

This class a temporal constraint or anchoring between two visits.

Role

Concrete

Template Slots

Name	Type	Cardinality	Other Facets
<div>1010</div> <div>S</div> disambiguationComments	Instance	multiple	classes={DisambiguationComment}
<div>1012</div> <div>S</div> dominant	Boolean	single	default={false}
<div>1014</div> <div>S</div> drillDown	Boolean	single	default={false}
<div>510</div> <div>S</div> encodingComments	String	single	
<div>1012</div> <div>S</div> first_object <sup>o1</sup>	Instance	single	classes={ProtocolEvent}
<div>1518</div> <div>S</div> longDescription	String	single	
<div>1516</div> <div>S</div> maximumRelativeOffset	Integer	single	
<div>1522</div> <div>S</div> minimumRelativeOffset	Integer	single	
<div>1520</div> <div>S</div> offsetUnits	Symbol	required single	allowed-values={Years,Months,Week...
<div>1512</div> <div>S</div> preferredRelativeOffset	Integer	single	
<div>1014</div> <div>S</div> second_object <sup>o1</sup>	Instance	single	classes={ProtocolEvent}
<div>1014</div> <div>S</div> shortDescription	String	required single	

FIG. 15

16/41

**Screening to Rheumatoid Factor (TemporalLink)**

**ShortDescription**  
Screening to Rheumatoid Factor

**FromEvent (first\_object)**  
Screening

**preferredRelativeOffset**

**ToEvent (second\_object)**  
Rheumatoid Factor

**MinimumRelativeOffset**  
-180

**MaximumRelativeOffset**  
-1

**OffsetUnits**  
Days ☐ Dominant

**DisambiguationComments**

**EncodingComments**

FIG. 16



17/41

FastTrack Protocol Protégé-2000 [C:\My Documents\Latest FastTrack RDF + CALGB 9840\FastTrack Protocol.pprj]

Project Edit Window Help

Classes Forms Instances

Relationship: Subclass V C X

Thing<sup>A</sup>

SYSTEM-CLASS<sup>A</sup>

Diagram\_Entity

Date

ProtocolElement<sup>A</sup> — 1112

EligibilityCriteriaSet — 1124

EligibilityCriterion

PatientManagementTask — 1130

Protocol — 1116

ProtocolSchemaDiagram<sup>M</sup> — 1132

Visit — 1128

VisitToVisitTransition<sup>M</sup>

DiseaseArea

Aim

WeightedPath

ApplicationArea

VisitCycle

Disease<sup>A</sup>

DiseaseQualifiers<sup>A</sup>

ModelVersion

Visit (instance of rdfs:Class)

Name

Visit

Constraints

V C + -

Documentation

An actual encounter between the provider and a patient on study. A number of possible visits are associated with a study (Protocol).

Role

Concrete

Template Slots

Name	Type	Cardinality	Default	Other Facets
dataManagementTasks — 1716	Instance	Multiple		classes={ManagementTask}
longDescription	String	Single		
patientManagementTasks	Instance	Multiple		classes={ManagementTask}
possibleVisitTransitions — 1714	Instance	Multiple		classes={VisitToVisitTransition}
rdfs:isDefinedBy	Instance	Single		classes={URI,rdfs:Resource}
rdfs:seeAlso	Instance	Single		classes={URI,rdfs:Resource}
resource uri	Instance	Single		classes={URI}
shortDescription	String	Single		
siteLongDescription	String	Single		
siteShortDescription	String	Single		

Rdfs:isDefinedBy

V C + -

Rdfs:seeAlso

V C + -

Resource Uri

64 5 V + -

Superclasses

+ -

FastTrackClass

1710

FIG. 17

18/41

FastTrack Protocol\_INSTANCE\_00014 [Instance of Visit]

ShortDescription

Arm A Treatment Visit

PossibleVisitTransitions

Arm A Treatment to Arm A Treatment Retry #1

Arm A Treatment to Long Term Followup

Arm A Treatment Visit to Arm A Treatment Visit

DataManagementTasks

Submit Form C-116

Submit Form C-118

Submit Form C-080

Submit Form C-344 + Form C-080 (\*)

Submit Form C-344 + Form C-272 (\*)

Submit Form C-113 (\*)

Submit Form C-260 (\*)

Submit Form C-300 (\*)

PatientManagementTasks

Confirm granulocytes >= 1500 / ul

Confirm no G-CSF given in past 24 hours

Give Dexmethosone 10 mg IV, 30 minutes

Give Diphenhydramine 50 mg IV, 30 minutes

Give Cimetidine 300 mg IV, 30 minutes

Give anti-emetics (\*)

Give Arm A Paclitaxel treatment

Give G-CSF (\*)

Evaluate Patient Response

Schedule next visit

LongDescription

Arm A of the CALG 9840 consists of treatment with Paclitaxel 175 mg/m2 administered as a 3 hour infusion intravenously every three weeks. One cycle is equivalent to one infusion. Treatment cycles will be repeated every 21 days as long as the patient has stable or responding disease. Granulocyte count must be >= 1500/ul and platelet count must be >= 100,000 / ul on day 1 of each cycle. Patients should receive a minimum of two cycles of therapy, unless there is rapid disease progression (>50% increase in product of bi-dimensional measurements).

SiteLongDescription

SiteShortDescription

FIG. 18

FastTrack Protocol Protégé-2000 [C:\My Documents\Latest FastTrack RDF + CALGB 9840\FastTrack Protocol.pprj]  
Project Edit Window Help

Classes Forms Instances

Relationship: Subclass V C X

ThingA

SYSTEM-CLASSA

Diagram\_Entity

Date

ProtocolElementA-1112

EligibilityCriteriaSet-1124

EligibilityCriterion

PatientManagementTask-1130

Protocol-1116

ProtocolSchemaDiagramM-1132

Visit-1128

VisitToVisitTransitionM

DiseaseArea

Arm

WeightedPath

ApplicationArea

VisitCycle

DiseaseA

DiseaseQualifiersA

ModelVersion

ManagementTask (instance of rdfs:Class)

Name

ManagementTask

Constraints

V C + -

Documentation

A task related to this visit. Includes:  
checks that tasks prior to this visit  
occurred, oks that tasks performed  
during this visit were done, or  
reminders for tasks to perform before

Role

Concrete

Template Slots

Name	Type	Cardinality	Default	Other Facets
longDescriptionImportance	Symbol	Single		values={Medium,High,Low}
longDescription	String	Single		
rdfs:isDefinedBy	Instance	Single		classes={UR,rdfs:Resource}
rdfs:seeAlso	Instance	Single		classes={UR,rdfs:Resource}
resource uri	Instance	Single		classes={UR}
shortDescription	String	Single		
siteLongDescription	String	Single		
siteShortDescription	String	Single		

Rdfs:isDefinedBy

V C + -

Rdfs:seeAlso

V C + -

Resource Uri

66 V + -

Superclasses

+ -

FastTrackClass

FIG. 19

20/41

FastTrack Protocol INSTANCE: 00206 [Instance of ManagementTask]

ShortDescription

Give Arm A Paclitaxel treatment

LongDescription

Give Paclitaxel 175 mg/m2 IV, 3hours. This treatment is given to patients in Arm A of the CALGB 9840 protocol. It is given once every 3 weeks. One cycle is equivalent to one infusion. Granulocyte count must be  $\geq 1500/\mu\text{l}$  and platelet count must be  $\geq 100,000/\mu\text{l}$  on day 1 of each cycle in order to proceed with the Paclitaxel infusion. Patients must receive the pre-medication prior to Paclitaxel infusion. If either the granulocyte or platelet count are not adequate, do not continue with treatment. Patients should receive a minimum of 2 cycles unless there is rapid disease progression.

Expected toxicities:

The dose-limiting toxicity of Paclitaxel is neutropenia. Other known toxicities include nausea and vomiting, diarrhea, stomatitis, mucositis, pharyngitis, typhilitis, ischemic colitis, bradycardia, atrial arrhythmia, hypotension, hypertension, sensory (taste), peripheral neuropathy, seizures, mood, hepatic encephalopathy, acute anaphylactoid and urticarial reactions, flushing, rash, pruritis, increased SGOT, SGPT, bilirubin and/or alkaline phosphatase, hepatic failure, hepatic necrosis, alopecia, fatigue, arthralgia, myalgia, light-headedness, myopathy, visual changes (sensation of flashing lights, blurred vision). Local infiltration with Paclitaxel will cause mild local symptoms (erythema, discomfort, induration) that usually resolve within a week. If infiltration occurs, there is the rare possibility of ulceration or rash. Seizure have been reported rarely in association with Paclitaxel use.

Dose Modifications:

Allergic reactions: Patients with grade 1 or 2 allergic reactions may have treatment continued without modifications. Patients with grade 3 or 4 allergic reactions who are responding to treatment may remain on protocol therapy after discussion with Study Chair. Such patients are at risk for recurrent allergic reactions. As a first maneuver, retreatment after premedication with oral recurrent allergic reactions. As a first maneuver, retreatment after premedication with oral dexamethasone 20 mg at 12 and 6 hours pre-administration of Paclitaxel, along with IV H1 and H2-receptor antagonist should be attempted. If necessary, thereafter, infusion rate adjustments will be considered and additional premedications will be administered. These patients must be informed of the potential risks of recurrent allergic reactions and must be carefully monitored.

Hematologic Toxicity: Patients are to be managed as clinically indicated. Colony stimulation factors (G-CSF) should be used in the manner

SiteLongDescription

FIG. 20

21/41

FastTrack Protocol\_INSTANCE\_00196 [instance of ManagementTask]

ShortDescription

Submit Form C-116

LongDescription

Submit CALGB Advanced Breast Cancer Followup-form (C-116) every two cycles while on protocol therapy, at 6 & 12 months after end of treatment, at disease progression or initiation of non-protocol therapy.

SiteLongDescription

SiteShortDescription

FIG. 21



23/41

FastTrack Protocol\_INSTANCE\_00023 [instance of VisitToVisit Transition]

<b>ShortDescription</b>		<b>PreferredRelativeTime</b>
Arm A Treatment to Arm A Treatment Retry #		7
<b>First Object</b>	V C + -	<b>MaximumRelativeTime</b>
Arm A Treatment Visit		7
<b>Second Object</b>	V C + -	<b>MinimumRelativeTime</b>
Arm A Treatment Retry #1		7
<b>LongDescription</b>		
If either granulocyte or platelet count are not adequate, blood counts should be repeated weekly and treatment should be instituted when there has been hematologic recovery. Patients receiving G-CSF are not eligible for re-treatment unless they have been off G-CSF for a minimum of 24 hours.		
<b>SiteLongDescription</b>		<input checked="" type="checkbox"/> IsPreferredTransition 2310
<b>SiteShortDescription</b>		

FIG. 23

24/41

FastTrack Protocol Protégé-2000 [C:\My Documents\Latest FastTrack RDF + CALGB 9840\FastTrack Protocol.pprj]

Project Edit Window Help

Classes Forms Instances

Relationship: Subclass V C X

@ :THING<sup>A</sup>  
 @ :SYSTEM-CLASS<sup>A</sup>  
 @ Diagram\_Entity  
 @ Date  
 @ ProtocolElement<sup>A</sup> — 1112  
 @ EligibilityCriteriaSet — 1124  
 @ EligibilityCriterion  
 @ PatientManagementTask — 1130  
 @ Protocol — 1116  
 @ ProtocolSchemaDiagram<sup>M</sup> — 1132  
 @ Visit — 1128  
 @ VisitToVisitTransition<sup>M</sup> — 2210  
 @ DiseaseArea  
 @ **Arml**  
 @ WeightedPath  
 @ ApplicationArea  
 @ VisitCycle  
 @ Disease<sup>A</sup>  
 @ DiseaseQualifiers<sup>A</sup>  
 @ ModelVersion

1126

1110

ProtocolSchemaDiagram (instance of Network\_Metaclass)

Name: ProtocolSchemaDiagram

Constraints: V C + -

Documentation: The ProtocolSchemaDiagram is the part of the protocol which details the design of the trial. A protocol schema's first visit is always at least one screening visit, which is assumed

Role: Concrete

Template Slots

Name	Type	Cardinality	Default	Other Facets
connectors — 2410	Instance	Multiple		classes={VisitToVisitTransition}
diagramNodes — 2412	Instance	Multiple		classes={Visit}
last_divider_location	Integer	Single		
layout_information	Instance	Multiple		classes={ObjectLocation}
longDescription	String	Single		
main_panel_height	Integer	Single		
main_panel_width	Integer	Single		
rdfs:isDefinedBy	Instance	Single		classes={URI,rdfs:Resource}
rdfs:seeAlso	Instance	Single		classes={URI,rdfs:Resource}
resource uri	Instance	Single		classes={URI}
shortDescription	String	Single		
siteLongDescription	String	Single		
siteShortDescription	String	Single		

Node Slot: V C + -

diagramNodes

Rdfs:isDefinedBy: V C + -

Rdfs:seeAlso: V C + -

Superclasses: + -

@ FastTrackClass  
 @ Network<sup>A</sup>

FIG. 24



25/41

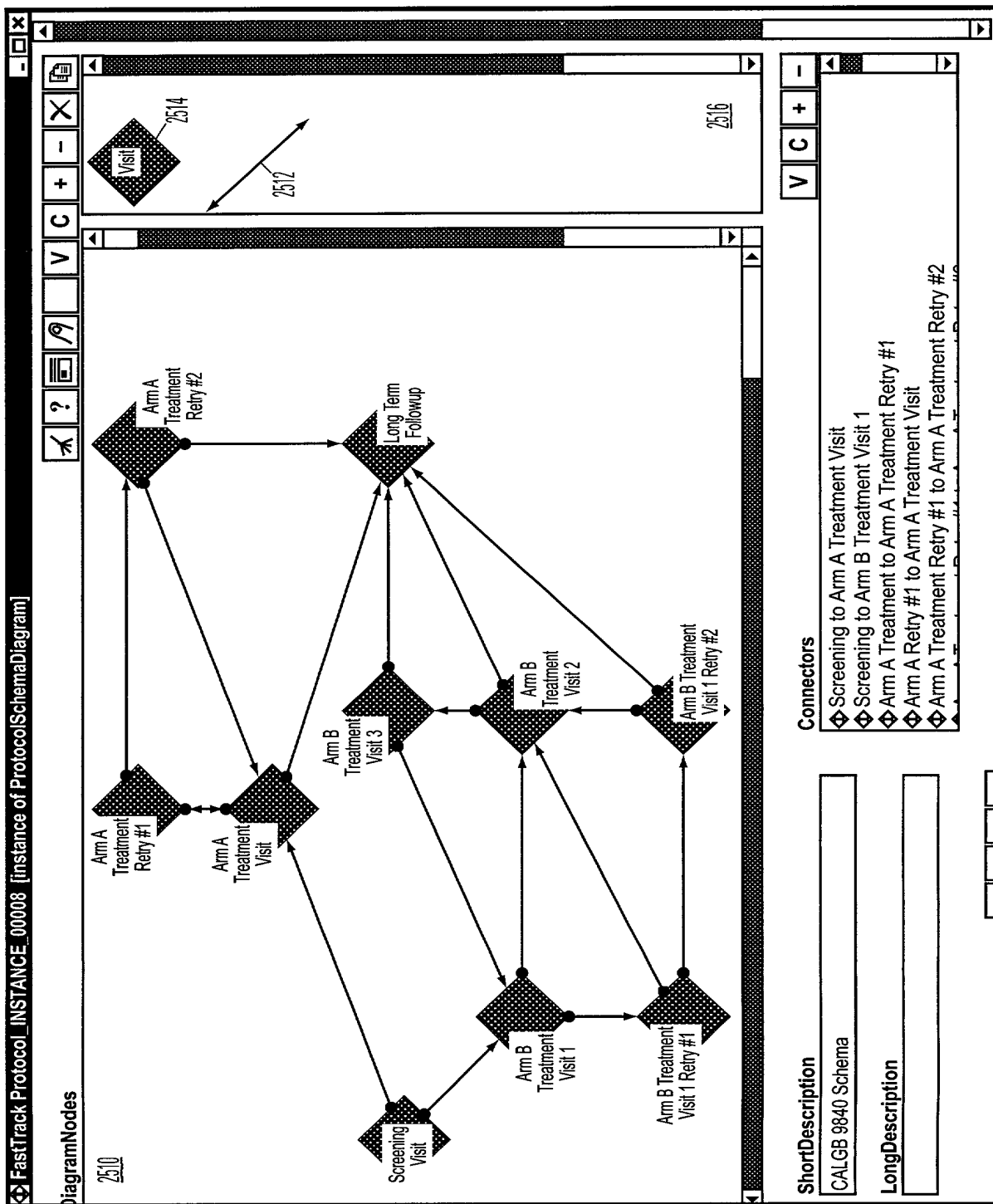


FIG. 25

**FIG. 26**



28/41

Protocol Protégé-2000 [D:\Work\Sample\Protocol.pprj]  
Project Edit Window Help

Classes Slots Forms Instances

Relationship: Subclass V C X

⊙ :THING<sup>A</sup>  
⊙ :SYSTEM-CLASS<sup>A</sup>  
⊙ Diagram\_Entity  
⊙ Date  
⊙ ProtocolElement<sup>A</sup> — 1112  
⊙ EligibilityCriteriaSet — 1124  
⊙ EligibilityCriterion  
⊙ PatientManagementTask — 1130  
⊙ Protocol — 1116  
⊙ ProtocolSchemaDiagram<sup>M</sup> — 1132  
⊙ Visit — 1128  
⊙ VisitToVisitTransition<sup>M</sup>  
⊙ DiseaseArea  
⊙ Arm — 1150  
⊙ WeightedPath — 1152  
⊙ ApplicationArea  
⊙ VisitCycle — 1154  
⊙ Disease<sup>A</sup>  
⊙ DiseaseQualifiers<sup>A</sup>  
⊙ ModelVersion

⊙ Arm (instance of :STANDARD.CLASS)

Name Arm Constraints V C + Documentation

Role Concrete

Template Slots

Name	Type	Cardinality	Default	Other Facets
drillDown	Boolean	single	false	
encodingComments	String	single		
isObsolete	Boolean	single	false	
longDescription	String	single		
obsoleteVisits	Instance	multiple		classes={Visit, VisitCycle}
shortDescription	String	single		
Visits — 2012	Instance	multiple		classes={Visit, VisitCycle}

2810

Superclasses  
⊙ ProtocolElement<sup>A</sup>

FIG. 28

**THE UNIVERSITY OF CHICAGO**

**FIG. 29**

30/41

Protocol Protégé-2000 [D:\Work\Sample\Protocol.ppt]

Project Edit Window Help

Classes Slots Forms Instances

Relationship: Subclass V C X

ThingA

SYSTEM-CLASSA

Diagram\_Entity

Date

ProtocolElementA

EligibilityCriteriaSet

EligibilityCriterion

PatientManagementTask

Protocol

ProtocolSchemaDiagramM

Visit

VisitToVisitTransitionM

DiseaseArea

Arm1150

WeightedPath1152

ApplicationArea

VisitCycle1154

DiseaseA

DiseaseQualifiersA

ModelVersion

Name

WeightedPath

Constraints

Documentation

Role

Concrete

Template Slots

Name	Type	Cardinality	Default	Other Facets
drillDown	Boolean	single	false	
encodingComments	String	single	false	
isObsolete	Boolean	single	false	
longDescription	String	single		
obsoleteVisits	Instance	multiple		classes={Visit,VisitCycle}
pathWeight3014	Integer	single	1	
shortDescription	String	single		
Visits3012	Instance	multiple		classes={Visit,VisitCycle}

Superclasses

Arm

FIG. 30

3110

[instance of WeightedPath]	
<b>ShortDescription</b> <input type="text" value="Arm A Path"/>	<b>Visits</b> <div><input type="button" value="V"/> <input type="button" value="C"/> <input type="button" value="+"/> <input type="button" value="-"/></div> <ul style="list-style-type: none"><li>◆ Screening ←2712</li><li>◆ Arm A Cycle ←2736</li><li>◆ End of Treatment ←2718</li><li>◆ Follow-up cycle ←2720</li></ul>
<b>LongDescription</b> <input type="text"/>	<b>PathWeight</b> <input type="text" value="1"/>
<input type="checkbox"/> <b>IsObsolete</b> <input type="checkbox"/> <b>DrillDown</b>	

**FIG. 31**

32/41

Protocol Protégé-2000 [D:\Work\Sample\Protocol.ppt]

Project Edit Window Help

Classes Slots Forms Instances

Relationship: Subclass V C A X

φ:THING<sup>A</sup>

- ⊙:SYSTEM-CLASS<sup>A</sup>
- ⊙Diagram\_Entity
- ⊙Date
- ⊙ProtocolElement<sup>A</sup>
- ⊙EligibilityCriteriaSet
- ⊙EligibilityCriterion
- ⊙PatientManagementTask
- ⊙Protocol
- ⊙ProtocolSchemaDiagram<sup>M</sup>
- ⊙Visit
- ⊙VisitToVisitTransition<sup>M</sup>
- ⊙DiseaseArea
- ⊙Arm — 1150
- ⊙WeightedPath — 1152
- ⊙ApplicationArea
- ⊙VisitCycle — 1154
- ⊙Disease<sup>A</sup>
- ⊙DiseaseQualifiers<sup>A</sup>
- ⊙ModelVersion

Superclasses

⊙ ProtocolElement<sup>A</sup>

Relationship: Subclass V C A X

⊙ VisitCycle (instance of :STANDARD.CLASS)

Name: VisitCycle

Constraints: V C +

Documentation:

Role: Concrete

Template Slots

Name	Type	Cardinality	Default	Other Facets
cycleCount — 3214	Integer	single	1	
drillDown	Boolean	single	false	
encodingComments	String	single		
isObsolete	Boolean	single	false	
longDescription	String	single		
shortDescription	String	single		
visitsInCycle — 3212	Instance	multiple		classes={Visit, VisitCycle}

3210

FIG. 32



[instance of VisitCycle]	
<b>ShortDescription</b>	<b>VisitsInCycle</b>
Arm A Cycle	V C + - ◆ Arm A, Day 1 → 2722 ◆ Arm A, Day 8 → 2724 ◆ Arm A, Day 15, Rest → 2726
<b>LongDescription</b>	
<b>EncodingComments</b>	<b>CycleCount</b>
	3
<input type="checkbox"/> DrillDown <input type="checkbox"/> IsObsolete	

34/41

**Lack of specific bounds on 1st MSFC relative to Randomization (DisambiguationComment)**

**ShortDescription**  
Lack of specific bounds on 1st MSFC relative to Randomization

**NOTE to ANALYSTS:** please assoc text w/ each DocReference PRN

**ConceptualProtocolSection** ☐ ☒ ☐

Timing of Events  
Screening Assessments  
Study Flow Chart

**DocumentReferences** ☐ ☒ ☐ ☐

32  
31

**Issue**  
The time window around the first practice test for MSFC really must happen at least 11 days before randomization, in order for the next two tests to occur at least 5 days apart from each other. This upper bound on the time window is not specified.

**Potential Impact**  
The first MSFC practice test could be scheduled at a time that would not allow the subsequent tests to be completed within the constraints of the protocol, producing protocol violations.

**Impact Type** ☐ ☒ ☐

Efficacy-primary

**Recommendation**  
Change "(Within 35 days of randomization)" for first practice test (MSFC) to say "(Between 35 and 11 days of randomization)."

FIG. 34

35/41

**Inconsistent tasks in tx plan and assessment table (DisambiguationComment)**

<b>ShortDescription</b> Inconsistent tasks in tx plan and assessment table	<b>Severity Level</b> Level One	<b>Document Page</b> p. 13, p. 31
<b>Protocol Text</b> "b) Baseline safety evaluation --- laboratory tests 2 days following the first infusion will include: ionized calcium, magnesium, phosphorus, creatinine, and CBC..."		<b>Additional reference comments</b>
<b>Issue</b> The assessment schedule on page 31 does not list the creatinine.	<b>Protocol Section</b> Treatment Plan Schedule of Events	
<b>Potential Impact</b> A safety assessment could be missed, having the potential impact of missing the timely deflection of an adverse event.	<b>Impact Type</b> Safety	
<b>Recommendation</b> Add in the creatinine task to the assessment summary.		

FIG. 35

920

**DocumentReference**

Name: DocumentReference

Role: Concrete

Documentation:

Constraints:

Template Slots

Name	Type	Cardinality	Other Facets
<input type="checkbox"/> addlDocRefInfo	String	single	
<input type="checkbox"/> disambiguationComments	Instance	multiple	classes={DisambiguationComment}
<input type="checkbox"/> drillDown	Boolean	single	default={false}
<input type="checkbox"/> encodingComments	String	single	
<input type="checkbox"/> literalSponsorSectionName	String	single	
<input type="checkbox"/> longDescription	String	single	
<input type="checkbox"/> pageNumber	String	single	
<input type="checkbox"/> protocolText	String	single	
<input type="checkbox"/> sectionReferenceNumber	String	single	
<input type="checkbox"/> shortDescription	String	required single	

3610

FIG. 36

37/41

31 (Document Reference)

31

11.1.2

VisualFunction and MSFC Practice Tests

Examining Technician instructions

"...performed three times within 35 days prior to randomization, with at least 5 days between any two evaluations.."

FIG. 37

38/41

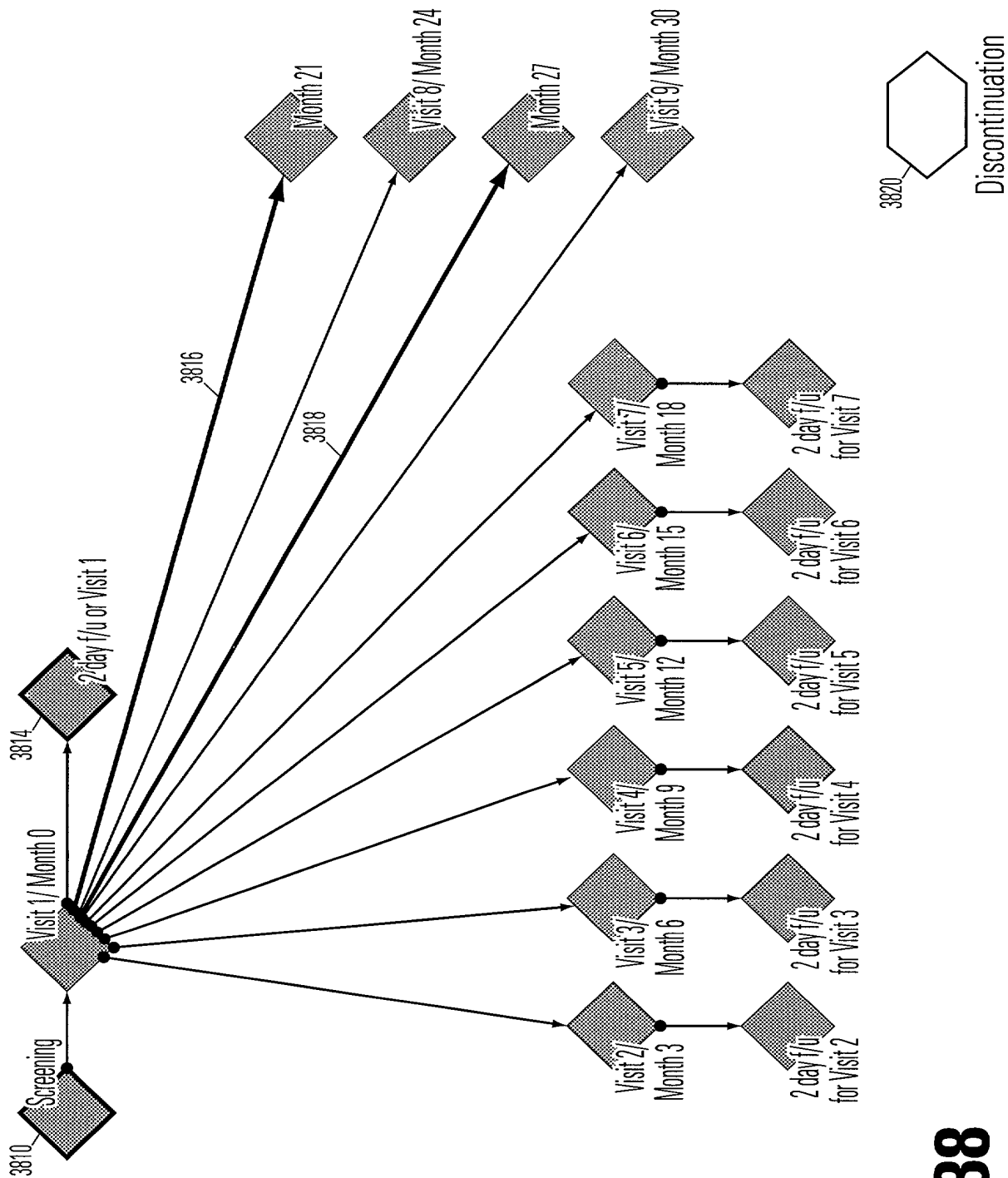


FIG. 38

201720" T844660

39/41

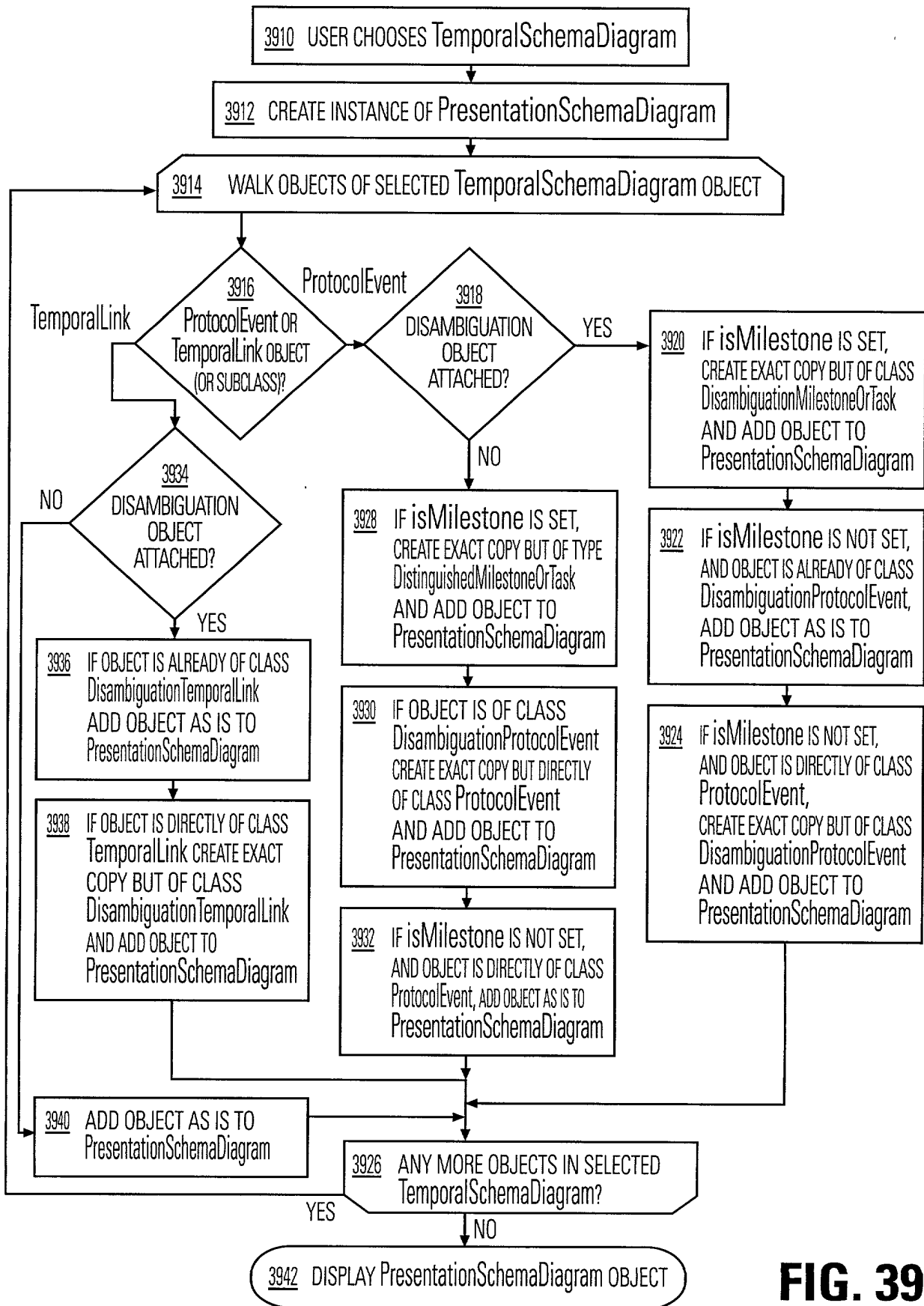


FIG. 39

40/41

## DISAMBIGUATION FINDINGS

Item	Impact Type	Protocol Section	Description	Document Reference
1	Safety Efficacy- primary Efficacy- secondary	Protocol Summary Study Flow Chart	<p><b>Issue:</b></p> <p>The description in the Protocol Synopsis of when assessments should be performed after 16 weeks is not consistent with Appendix I Schedule of Assessments.</p> <p><b>Potential Impact:</b></p> <p>Confusion as to when to perform these evaluations (clinical parameters and safety assessments) could result in inconsistent and inaccurate collection of data for the study.</p> <p><b>Recommendation:</b></p> <p>Revise sentence in the Protocol Synopsis to read, "After 16 weeks these evaluations will be performed every two to "four" months..." in order to be consistent with the timepoints indicated in Appendix I Schedule of Assessments.</p>	<p><i>Pg. 12; Section Protocol Synopsis; Procedure; Paragraph 6:</i></p> <p>"Clinical parameters (ACR core set) and safety assessments (adverse events and laboratory parameters) will be performed at baseline and then at monthly intervals up to 16 weeks. After 16 weeks these evaluations will be performed every two to three months, up to 104 weeks."</p>

FIG. 40



41/41

Item	Impact Type	Protocol Section	Description	Document Reference
4	Safety Accrual	Screening Assessments Study Flow Chart	<p><b>Issue:</b></p> <p>The protocol text specifies that if an analysis with evidence of seropositivity was performed within 6 months before screening, then rheumatoid factor testing will not have to be performed at screening. However, this is not noted in Appendix I Schedule of Assessments.</p> <p><b>Potential Impact:</b></p> <p>Unnecessary analysis performed at screening.</p> <p><b>Recommendation:</b></p> <p>Add a footnote to the Rheumatoid Factor assessment in Appendix I to clarify that documented evidence of seropositivity is acceptable as screening data if obtained within 6 months before screening.</p>	<p><i>Pg. 28; Section 8.6.2; Rheumatoid Factor:</i>  “Unless there is documented evidence of rheumatoid factor titre within 6 months before screening a blood sample for this analysis will be taken.”</p> <p><i>Pg. 41; Section Appendix I; Schedule of Assessments</i></p>

FIG. 41